

Amendments to the Claims

Please amend claims 1, 3, 5 and 17-19 as shown in the following list of claims. This listing of claims will replace all prior versions, and listings, of claims in the application.

- 1 1. (currently amended) An optical-signal receiver, comprising:
2 an optical imaging array sensor operable to capture images of a
3 target surface, the optical imaging array sensor being further operable to receive an
4 optical signal from an optical-signal emitter communicatively coupled to an
5 electronic system; and
6 a processor operable to calculate a vector value that represents a
7 movement of the receiver using the images captured by the optical imaging array
8 during a cursor controlling operation, the processor being further operable to
9 implement a performance characteristic value specified by the optical signal
10 received by the optical imaging sensor array during programming of characteristic
11 settings of the receiver.

- 1 2. (original) The receiver of claim 1, further comprising a transmitter operable
2 to communicate a state signal identifying a state of the receiver to the electronic
3 system.

- 1 3. (currently amended) A system, comprising:
2 an optical-signal generator;
3 an optical-signal emitter coupled to the generator; and
4 an optical-signal receiver having a performance characteristic set to
5 a first value, the receiver including an optical imaging array sensor to receive from
6 the emitter an optical signal and to capture images of a target surface, the receiver
7 further including a processor operable to calculate a vector value that represents a
8 movement of the receiver using the images captured by the optical imaging array
9 during a cursor controlling operation, the processor being further operable to set the
10 performance characteristic to a second value in response to the optical signal
11 received by the optical imaging sensor array during programming of characteristic

12 ~~settings of the receiver operable to set the performance characteristic to a second~~
13 ~~value.~~

1 4. (original) The system of claim 3, wherein the generator comprises a
2 computer system.

1 5. (currently amended) The system of claim 3, wherein the emitter comprises a
2 video-display monitor configured to display said optical signal to be received by the
3 optical imaging array sensor of the optical-signal receiver to set the performance
4 characteristic to the second value in response to the optical signal.

1 6. (original) The system of claim 3 wherein the receiver is operable to generate
2 a state signal identifying a state of the receiver.

1 7. (original) The system of claim 6 wherein the receiver is further operable to
2 communicate the state signal to the generator.

1 8. (original) The system of claim 6, wherein the emitter comprises a
2 state-signal receiver operable to receive the state signal from the optical-signal
3 receiver and provide the state signal to the generator.

1 9. (original) The system of claim 3, wherein the receiver comprises a wireless
2 optical mouse.

1 10. (original) The system of claim 3, wherein a performance associated with the
2 characteristic is displayable by the generator.

1 11. (original) The system of claim 3, wherein the performance characteristic
2 comprises a frame rate.

1 12. (original) The system of claim 3, wherein the performance characteristic
2 comprises an inactivity-period threshold.

1 13. (original) The system of claim 6, wherein the state comprises velocity
2 relative to a surface.

1 14. (original) The system of claim 6, wherein:
2 the state signal comprises a characteristic having first and second
3 values; and
4 the first and second state-signal characteristic values respectively
5 correspond to the first and second performance-characteristic values.

1 15. (original) The system of claim 3, wherein the optical signal specifies the
2 second value.

1 16. (original) The system of claim 6, wherein the state signal specifies the
2 second value.

1 17. (currently amended) A system, comprising:
2 an optical-signal emitter operable to be coupled to an electronic
3 system; and
4 an optical-signal receiver having a performance characteristic set to
5 a first value, the receiver including an optical imaging array sensor to receive from
6 the emitter an optical signal and to capture images of a target surface, the receiver
7 further including a processor operable to calculate a vector value that represents a
8 movement of the receiver using the images captured by the optical imaging array
9 during a cursor controlling operation, the processor being further operable to set the
10 performance characteristic to a second value in response to the optical signal
11 received by the optical imaging sensor array during programming of characteristic
12 settings of the receiver ~~operable to set the performance characteristic to a second~~
13 ~~value.~~

1 18. (currently amended) A method of programming an optical-signal receiver,
2 comprising:
3 generating an optical signal to be received by an optical imaging
4 array sensor of the optical-signal receiver from an optical-signal emitter, the

5 receiver having a performance characteristic set to a first value, the optical signal
6 operable to set the performance characteristic to a second value, the optical imaging
7 array sensor being operable to also capture images of a target surface to calculate a
8 vector value to determine a movement of the receiver; and
9 displaying the optical signal on a video-display monitor of the
10 optical-signal emitter to be received by the optical imaging array sensor of the
11 optical-signal receiver to set the performance characteristic to the second value in
12 response to the optical signal.

1 19. (currently amended) A method implemented by a receiver having a
2 performance characteristic set to a first value, comprising:
3 communicating a state signal identifying a state of the receiver to an
4 electronic system; ~~and~~
5 receiving an optical signal from an emitter communicatively
6 coupled to the electronic system at an optical imaging array sensor of the receiver,
7 the optical signal operable to set the performance characteristic to a second value;
8 capturing images of a target surface at the optical imaging array
9 sensor; and
10 calculating a vector value that represents a movement of the receiver
11 using the images captured by the optical imaging array.